



ELECTRONIC TUBE REFERENCE

D10180GY

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Philips instrument cathode-ray tube for oscilloscope or precision display service, using electrostatic beam control and manufacturer-specified focusing, acceleration, capacitance, screen, and deflection characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	63 V / 24 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray

No fixed ratings recorded.

Published electrical ratings and operating data captured in promoted fields where directly applicable and additional parameter rows.

Philips cathode-ray tube intended for oscilloscope or instrument-display service. The datasheet specifies screen, heating, electrostatic deflection, accelerator/focusing voltages, capacitances, operating characteristics, and limiting values as applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS 0-D

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published specification	0 cm	Published datasheet specification
for portable oscilloscopes with up to	56 MHz	Published datasheet specification
Minimum useful scan area	0	Published datasheet specification
horizontal My	6 V	Published datasheet specification
vertical My	3 V/cm	Published datasheet specification
Useful screen area >	0	Published datasheet specification
Useful scan area	70	Published datasheet specification
Heater voltage Vs	3 V	Published datasheet specification
Heater current I	24 A	Published datasheet specification
Overall length (socket included) <	40 mm	Published datasheet specification
edges. If use is made of this dynamic correction, a negative voitage proportional to, and approx	0	Published datasheet specification
Published specification	7	Published datasheet specification
Published specification	1	Published datasheet specification
Published specification	2	Published datasheet specification
Published specification	4	Published datasheet specification
Published specification	9	Published datasheet specification
y{toy	1	Published datasheet specification
Control grid to all other elements Cg	6 pF	Published datasheet specification

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other elements Ck	7 pF	Published datasheet specification
* The tube has a trace rotation coil, fixed onto the lower cone part. The coil has	0	Published datasheet specification
typical resistance of	65	Published datasheet specification
Thus maximum required voltage is approx	1 V	Published datasheet specification
100 kQ 96	4	Published datasheet specification
will pass through an opening of	5 mm	Published datasheet specification
Published specification	350 mm	Published datasheet specification
w (August	982	Published datasheet specification
horizontal >	0 mm	Published datasheet specification
vertical	56 mm	Published datasheet specification
Published specification	6 V	Published datasheet specification
Published specification	3 V	Published datasheet specification
Line width at 10 uA beam current	0.2 mm	Published datasheet specification
Grid drive for	0 uA	Published datasheet specification
calibration. Correction is obtained at V5	1800	Published datasheet specification
beam current of approx	0 uA	Published datasheet specification
Vy1	2	Published datasheet specification
Measure the current on x2 and adjust Vg1 for I,	10	Published datasheet specification
Published specification	75	Published datasheet specification
at a deflection of	6	Published datasheet specification
Published specification	70 mm	Published datasheet specification